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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/532,699	04/26/2005	Taro Takahashi	155-05	8736
7590	06/21/2010		EXAMINER	
John F McNulty, Esquire Paul & Paul 2900 Two Thousand Market Street Philadelphia, PA 19103			GEORGE, PATRICIA ANN	
			ART UNIT	PAPER NUMBER
			1781	
			MAIL DATE	DELIVERY MODE
			06/21/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)
	10/532,699	TAKAHASHI ET AL.
	Examiner	Art Unit
	Patricia A. George	1781

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If no period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 01 June 2010.

2a) This action is FINAL. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 21-23, 25 and 26 is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 21-23 and 25-26 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
 3) Information Disclosure Statement(s) (PTO/US/06)
 Paper No(s)/Mail Date _____

4) Interview Summary (PTO-413)
 Paper No(s)/Mail Date _____

5) Notice of Informal Patent Application
 6) Other: _____

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 6/01/10 has been entered.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 21-23, and 25-26 rejected under 35 U.S.C. 103(a) as being unpatentable over Lapre, in view of the combination of Takahashi and Jarvis.

Markovic is provided as evidence.

Jarvis: The polysaccharide structure of potato cell walls: Chemical fractionation; Journal: Planta, Issue: Volume 152, Number 2 / June, 1981; Received: 31 October 1979 Accepted: 2 February 1981.

Lapre teaches a cooked and hydrated carbohydrate core, such as rice, is coated with a polysaccharide coating, comprising pectin, which provides the benefit of reducing

the glycemic response to make improvements such as: treatment of diabetes, hypoglycemia, and glycogen storage disease, and suppressing appetite and assisting the performance of sustained physical activity. Lapre teaches the coating is crosslinked (i.e. enhanced) so that it will remain on the surface of the carbohydrate, because polysaccharides tend to be water soluble (i.e. aqueous). See abstract and summary sections.

Lapre teaches to use crosslinkable polysaccharides to coat starch, by adding one or more cations, such as edible salts, to effect the crosslinking during cooking in an aqueous medium. See reference Summary section.

Once the coating is crosslinked in an aqueous medium, the polysaccharides are taught to be "preferably at least essentially insoluble, or at least substantially insoluble, in boiling water".

Lapre teaches one or more water-soluble polysaccharides may be used, in combination, including: pectin and pectinic acid, which reads on water-soluble acidic polysaccharides. See bottom of column 7.

Lapre is silent as to the water-soluble acidic polysaccharides being derived from a white potato (e.g. including uronic acids), as in claim 21.

Takahashi teaches that there are many benefits from using pectin derived from white potatoes, such as:

1) pectin derived from white potatoes in hot water (i.e. water soluble), are known to have a function which can stabilize proteinic distribution, see abstract and paragraph 0019;

2) pectin derived from white potatoes has the benefit of maintaining its state even after heat is applied, see "Effect of the Invention";

3) pectin derived from white potatoes is stronger because the starch that is contaminated during the extraction process, is desirably removed, see paragraph 0018; and

4) the extraction temperature of pectin from white potatoes is carried out in a range that speeds up extraction and therefore provides an economical advantage because the extraction can be managed in a short time, see paragraph 0017.

It would have been obvious to one of ordinary skill in the art, at the time the invention was made, to modify the method of coating starchy foods with a pectin, as Lapre, to include the specifically claimed pectin, such as white potato derived water soluble acidic polysaccharide (i.e. pectin), as claimed, because one of skill would have a reasonable expectation of success in the teaching by Takahashi, which illustrates that there are benefits in using the type of pectin derived from white potatoes, including that the pectin from white potatoes is stronger, and that it is more economical to make because the production time can be reduced due to having the capability of using increased temperatures. One of skill would be motivated to use a pectin that is stronger and is economically made, because its use would provide costs savings, such as

reduced shipping cost for less volume (i.e. a stronger product), and reduced manufacturing cost, a certain benefit.

Lapre is silent as to there being uronic acids in the portion of water-soluble acidic polysaccharides.

Markovic provides evidence that pectin consists of a linear chain of α -(1-4)-linked D-galacturonic acid (i.e. an uronic acid). See the 2nd paragraph of the introduction.

Therefore, the pectin in the modified invention of Lapre inherently has a quantity of uronic acid, which inherently exists in the said pectin of the modified invention of Lapre.

Lapre teaches the amount of coating used is relatively thin at about 0.01 to 5 wt% of the core food, however is silent as to the range of uronic acid and starch in the polysaccharide, as in claims 21-23.

Jarvis teaches that potato polysaccharide inherently has a range of about greater than 0 to 20 % glacturonan (i.e. uronic acid). See reference starting at Fig. 1.

It would have been obvious to one of ordinary skill in the art, at the time the invention was made, to modify the method of coating starchy foods with a potato derived water soluble acidic polysaccharide (i.e. pectin) having uronic acid, as the modified teaching of Lapre, to include the specifically claimed range of uronic acid in the polysaccharide, as Jarvis, because one in the art would have a reasonable expectation

of success in the teaching by Jarvis which illustrates the inherent components of potatoes.

As to the amount of uronic acid in the coated food, since greater than about 0 to 20% of the polysaccharide is uronic acid, and the polysaccharide is about 0.01 to 5 wt% of the food, it appears that quantity of uronic acid would be from about 0.002 to 1% of the weight of the core, which is encompassed by the claim of 0.003 to 1.0 wt%, as in claim 21; 0.035 to 0.5, as in claim 22; and 0.08 to 0.2 wt% as in claim 23.

Further, since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. *In re Aller*, 220 F.2d 454, 105 USPQ 223 (CCPA 1955).

As to the intended use of avoiding sticking, one of skill would have a reason to expect that similar methods, such as the one taught above, would have similar intended uses.

With respect for claims 25-26, the modified teaching of Lapre, teaches in Takahashi, that the potato-derived water-soluble acidic polysaccharides have a starch content of about 7%, which encompasses the claim of: a starch content of no more than 60%, as in claim 21; a starch content of no more than 30%, as in claim 25; and a starch content of no more than 10%, as in claim 26. See paragraph 0024.

Response to Arguments

Applicants argument's are moot in view of the new grounds of rejection, above, necessitated by the amendments of 6/01/2010.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Patricia A. George whose telephone number is (571) 272-5955. The examiner can normally be reached on Mon. -Wed. between 9:00 am and 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Keith Hendricks can be reached on (571) 272-1401. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Patricia A George
Examiner
Art Unit 1781

/Patricia A George/
Examiner, Art Unit 1781

/Keith D. Hendricks/
Supervisory Patent Examiner, Art Unit 1781